

## 5.0 SYSTEM TESTING AND IMPLEMENTATION

This phase involves some modifications to the previous design. System testing has been gone through to minimize the programming error and system error. Then, the way to implement the system will be discuss further.

### 5.1 Testing Strategies

In developing this system, testing involves several stages. First, each program component is tested on its own, isolated from the other components in the system. Such testing is known as *unit testing* or *component testing*. This stage of testing will verify whether the component functions properly with the types of input and output expected from studying the component's design. After each component has been tested, the interaction between these components is tested again to ensure that the components can be integrated. (Dr.P.Sellapan, 2000)

When all components have been unit-tested, the next step is ensuring that the interfaces among the components are defined and handled properly. This step is called *integration testing*, also known as *module testing*, which verifies that the entire component can work together as described in the module or system design specifications.

Finally, system testing is performed to ascertain that the whole system works according to the requirement description and specifications. System modification will be carried out if the requirements as described in the specification are not met.

### **5.1.1 Unit Testing**

Unit testing concentrates on the smallest unit of software design, which is the module. A module is a collection of components, which are independent from each other. After each component unit has been tested, the interaction between these components will be tested. Unit testing is done concurrently with the prototyping phase in the development of this project. For example, "*edit postgraduate student record*" in the record is one of the sub-modules with many sub-functions. The insertion of student particulars and other functions (*delete & update*) are tested to ensure that the module is error free and the records can be saved and retrieved from database correctly. (Kendall & Kendall, 1999)

In the development of this system, unit testing is done after the development of each module and not the end of the whole system development. The object and programming codes are thoroughly checked and tested to ensure that the function and data are implemented properly as indicated in the design. If there were any error, debugging would be carried out to identify the error before testing the unit again.



Other unit that is independently unit-tested such as opening and closing of connection to the database are also important.

### **5.1.2 Module Testing**

The objective of module testing (also known as integration testing) is to take unit-tested modules and build program structure that encapsulates all of the related modules. This testing will ensure that the module calling sequence in this project is systematic.

In module testing, two or more units in which either unit that use output data from or provide input data for another unit are tested in collection. These units have related characteristics to perform a common goal or function. (Kendall & Kendall, 1999)

All the ASP objects were integrated and tested to ensure the success of integration. Multiple values of test data were entered through the interface to ensure that values were inserted correctly into the database.

### 5.1.3 System Testing

The last testing procedure is *system testing*. Once all the modules are tested, they are tested in concert to verify that all the elements are functioning and interfacing with each other properly. The testing result will show whether or not the entire system specifications and objectives are achieved. (Kendall & Kendall, 1999)

## 5.2 System Testing

System testing to the applications that have been developing in the system is to satisfy the scope and the objectives. Modules that involved are:

- Main page module
- Student login module
- Student change password module
- Student's personal information list module
- Course selections module
- Course selected module
- Fees payment module
- Timetable module
- Administrator login module
- Administrator change password module
- View students' information module
- Edit menu module
- Edit students' information module

- Edit administrators' information module
- Edit registration fee and exam fee module
- Edit MIT course information module
- Edit MSE course information module
- Edit MCS course information module
- Edit MLIS course information module
- Edit PHD course information module
- Students access list module
- Administrators access list module
- Course registration reports module

### **5.2.1 Main page module testing**

Testing on the link function of each hyperlinks to make sure the navigations are correct.

### **5.2.2 Student login module testing**

In this module, enter the correct and false student's programme, ID and password to check whether can access to the next page. Then, the functionality of the buttons also been checked. The error message box will prompt out if the user makes an error.

### **5.2.3 Student change password module testing**

In this module, the correct student's programme, ID, existing password and new password have been entered to make sure the password is successfully changed. The system will prompt out the words " Password Successfully Changed " if the existing password has been changed.

### **5.2.4 Student's personal information list module testing**

Enter the new data in this module and make sure all the data can be updateable. Error message box will prompt out if user makes an error.

### **5.2.5 Course selections module testing**

This module is tested by select the same courses, and then, no course is selected. The error message box will prompt out and show users the error they have made.

### **5.2.6 Course selected module testing**

Check whether the course name and course code are the same as the one that have been selected. Then, check whether the total of course fees, credit hours and fees per credit hours are correct.

#### **5.2.7 Fees payment module testing**

In this module, try to enter the false information in the text box to see whether the error message box will prompt out. If all the information that entered is correct, then the system will store all the information in the database. The system will tell the users that they have successfully done the registration.

#### **5.2.8 Timetable module testing**

Testing on the links to every timetable to make sure all the links will go to the correct timetables.

#### **5.2.9 Administrator login module testing**

In this module, enter the correct and false administrator's status, ID and password to check whether can access to the next page. Then, the functionality of the buttons also been checked.

#### **5.2.10 Administrator change password module testing**

In this module, the correct administrator's status, ID, existing password and new password have been entered to make sure the password is successfully changed.

#### **5.2.11 View students' information module testing**

The correct and false students' matrix number have been entered to test whether the system is showing the correct students record.

#### **5.2.12 Edit menu module testing**

Testing on the link function of each hyperlinks to make sure the navigations are correct.

#### **5.2.13 Edit students' information module testing**

In this module, make sure the particular student's record can be updated and deleted. Besides that, make sure add the new student function is workable. The new student's record must be store in the database. Retrieve the information (new student record) back after the adding process to check whether the new record is correct. Make sure the correct error message box prompt out when make mistake.

#### **5.2.14 Edit administrators' information module testing**

In this module, make sure the particular administrator's record can be updated, deleted and added. Make sure the correct error message box prompt out when make mistake.

### **5.2.15 Edit registration fee and exam fee module testing**

Enter the different figures of registration fee and exam fee in the text boxes and update the information. Then check in the course-selected module whether the figure of registration fee and exam fee are the same.

### **5.2.16 Edit MIT course information module testing**

In this module, check the courses can be edited, updated, deleted and added. Make sure the correct error message box prompt out when make mistake.

### **5.2.17 Edit MSE course information module testing**

In this module, check the courses can be edited, updated, deleted and added. Make sure the correct error message box prompt out when make mistake.

### **5.2.18 Edit MCS course information module testing**

In this module, check the courses can be edited, updated, deleted and added. Make sure the correct error message box prompt out when make mistake.

### **5.2.19 Edit MLIS course information module testing**

In this module, check the courses can be edited, updated, deleted and added. Make sure the correct error message box prompt out when make mistake.

#### **5.2.20 Edit PHD course information module testing**

In this module, check the courses can be edited, updated, deleted and added. Make sure the correct error message box prompt out when make mistake.

#### **5.2.21 Students access list module**

In this module, check whether the access time to the system is correct. Then, test the delete record function is workable.

#### **5.2.22 Administrators access list module**

In this module, check whether the access time to the system is correct. Then, test the delete record function is workable.

#### **5.2.23 Course registration reports module**

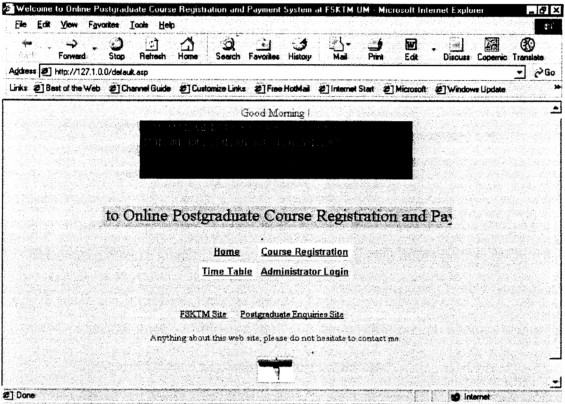
In this module, the link functions of every hyperlink are tested. Make sure the link functions will link to the correct pages. Then, the workable of the search function in the module has been tested. Enter the course code and then check whether the correct students are registering that particular course.



### **5.3 System Implementation**

System implementation is a process that converts the system requirements and designs into program codes. Online Postgraduate Course Registration and Payment System is developed using the top-down approach which involves building the high-level system modules which are further refined into function and procedures. Therefore, this system can be implemented by a few module and sub module.

### 5.3.1 Online Postgraduate Course Registration and Payment System Main Page



**Figure 37: Online Postgraduate Course Registration and Payment System Main Page**

The main page shows a menu that contains 4 main functions that can be chosen.

- i. Home – This function allows the students to return to the main page of the Online Postgraduate Course Registration and Payment System.
- ii. Course Registration – This function allows the students to register for the courses they want to study for a particular semester. Students can also update their personal details. After registration, students can pay their fees online.

- iii. Time Table – This function allows the students to view the latest timetable for the semester.
- iv. Administrator Login – This function can only be accessed by administrators such as head of the department, UM Treasury, lecturer and staff of the department to view, delete or edit students personal details and course registration information.

Besides the 4 main functions, there are 3 small functions at the bottom of the main page.

- i. FSKTM Site – Students can get more information about Faculty of Computer Science and Information Technology.
- ii. Postgraduate Enquires Site - Students can get more information about their program in this site.
- iii. Email Icon – Students can email to that email account if they have any questions.

### **5.3.2 Course Registration**

To start the course registration, click on the word “ *Course Registration* ” at the menu.

The following page will appear.

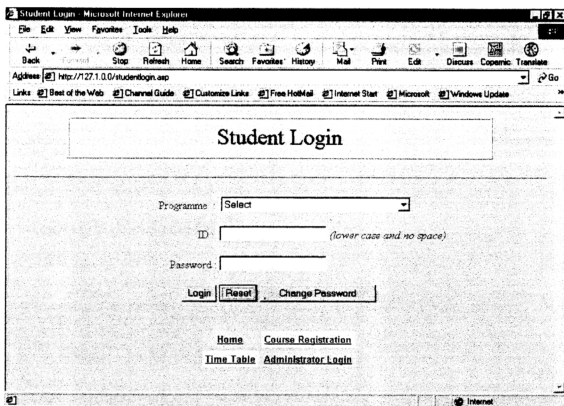


Figure 38: Student Login

### 5.3.2.1 Change Password

- i. To change old password, click on the “*Change Password*” button.

- ii. User will see a change password page as shown below.

Change Password - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Address <http://127.1.1.0/studentchange-password1.asp> Go

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## Change Password

ID :

Password :

New Password :

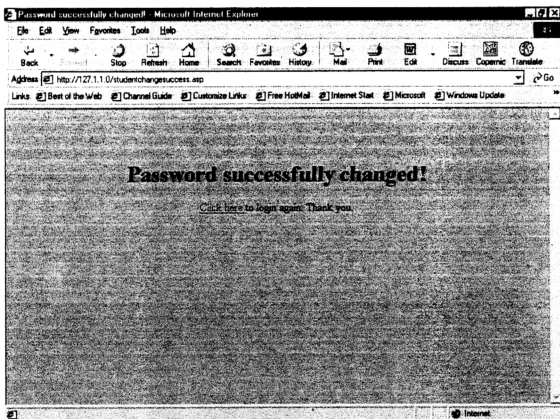
Re-type New Password :

---

Done Internet

**Figure 39: Change Password**

- ii. Fill in the information in the text box and click on “ *Submit* ” button.
- Try using the ID and password below. Then, try to create own new password.
- ID = wgd00030 and Password = 123 or
- ID = wgd00031 and Password = 123
- If all the information entered is correct, then a “ Password Successfully Changed “ page will appear next.



**Figure 40: Password Successfully Changed**

- iv. Then click on the word " *Click here* " to login again with the new password.
- v. If information entered in the text is not complete, the password that entered in the text box does not match with the ID or the two new passwords in the text box are not the same, then have to try again.

#### **5.3.2.2 Student Login**

- i. User have to login with your ID and password as shows in Figure 41. For example,

Programme = Master of Information Technology

ID = wgd00030

Password = 123

**Or**

Programme = Master of Software Engineering

ID = wgd00031

Password = 123

**Or**

Programme = Master of Computer Science

ID = wgd00035

Password = 123

Student Login - Microsoft Internet Explorer

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Address <http://127.1.0.0/studentlogin.asp> Go

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## Student Login

Programme:

ID:  (lower case and no space)

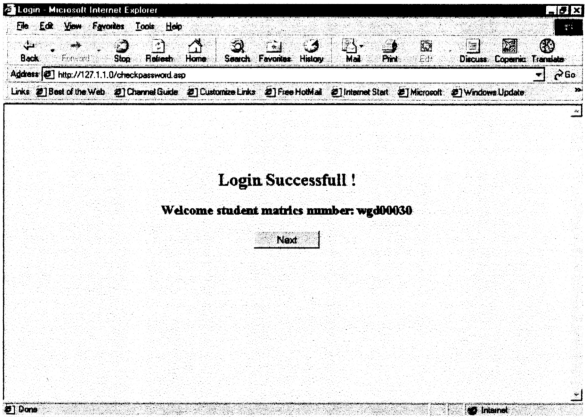
Password:

[Home](#) [Course Registration](#)  
[Time Table](#) [Administrator Login](#)

Done Internet

**Figure 41: Student Login Page**

- ii. If the programme, ID, and password that entered do not match with each other, then access will be denied. If user has entered the correct information, the following page (Figure 42) will appear.



**Figure 42: Successful Login**

- iii. Click on the “ *Next* ” button and the page as shown in Figure 43 will appear. This page shows the particular student’s personal information. User can update the record if you want to do so. An error message box will prompt out of any mistake that make during updating the record.



Personal Information List - Microsoft Internet Explorer

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Address <http://127.1.0.0/studentinfo.asp> Go

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### Student Personal Information List

(Please correct the information if it is wrong !)

Matrix No : wgd00030

Programme : MIT

Full Name : Gary Goh Ren Huu

NRIC No : 761013055149 ex 761013478139

Sex : ☒ Male ☐ Female

Marital Status : ☐ Single ☒ Married

Race : Chinese

Address : 05, Taman Templer, 70200 Seremban

Telephone : 0315632452 ex 067698899 / 0126377888

Done Internet

**Figure 43: Student Personal Information List**

### 5.3.2.3 Student Personal Information

- After that, go to the Course Selections page. Figure 44 and Figure 45 show the courses are offered in the semester.

Course Selections - Microsoft Internet Explorer

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Address <http://127.1.1.0/coursestable.asp> Go

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MIT Course Selections				
Course Name	Course Code	Credit Hours	Fees Per Credit (RM)	Total Fees (RM)
Visual Programming: Concept and Application	WXGE6104	3	210	630
Multimedia Technology	WXGE6309	3	210	630
Web Commerce	WXGE6306	3	210	630
Knowledge Management	WXGE6308	3	210	630
Database Concepts and Implementation	WXGE6101	3	210	630
Software				

Done Internet

Figure 44: Course Selections

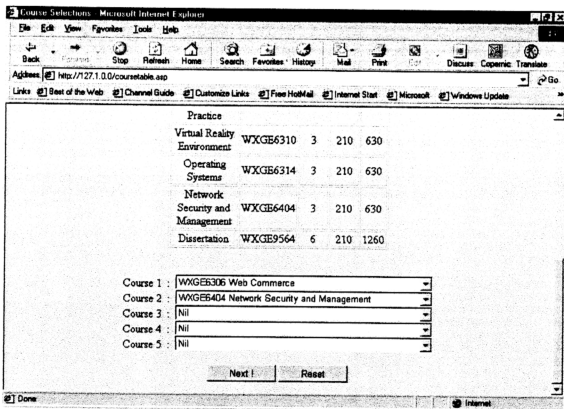
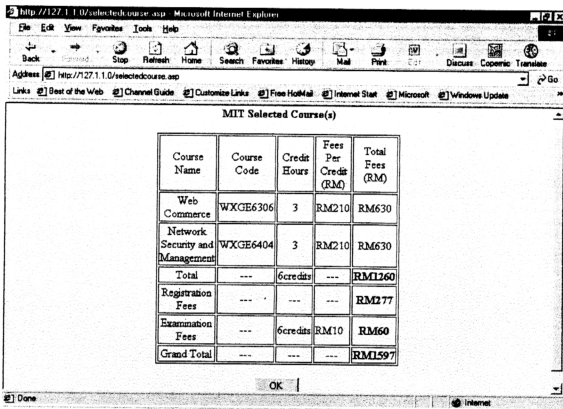


Figure 45: (Continue from Figure 44)

#### 5.3.2.4 Course Selections

- i. User must choose at least one course up to a maximum of 5 courses. If they did not choose any course, or choose the same courses, then an error message box will appear to tell the error that user has made. Therefore, try again.
- ii. After the course(s) is selected, click on "Next" button, the page like Figure 46 will appear. The system will calculate the total course fee automatically. The total course fee is inclusive of registration fee and examination fee.



**Figure 46: Selected Course(s)**

### 5.3.2.5 Selected Course(s)

- i. After that, click on the “OK” button, user will go to the payment page as shown in Figure 47. Here, user have two choices; either pay for your fees via visa or master card or pay in cash to the UM Bursar’s Office. If they want to pay via visa or master card, then fill in the entries and click on the “Submit” button. An error message box will appear to alert user if they make any error.

### 5.3.2.6 Payment

- i. However, if user wants to pay their fees to UM Bursar's Office, just click on " OK " button. They need to clear all the payment within two weeks from the date they have registered for the course(s).

Payment Information

Credit Card Payment

Mastercard
454553-4361431
Goh Ren Huu
0303
95, Taman Templer, 70200 Seremban
<input type="button" value="Submit"/> <input type="button" value="Reset"/>

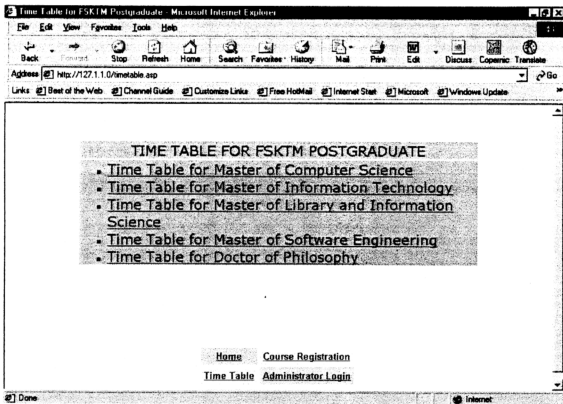
Other Payment Type

<input type="button" value="OK"/>
-----------------------------------

Figure 47: Payment Information

### 5.3.3 Time Table

- i. To view the latest timetable, click on the word " Time Table " on the menu. The following page will appear (Figure 48).



**Figure 48: Time Table**

- ii. Select the timetable that user want to view. For example, the Time Table for Master of Computer Science is shown in Figure 49.

Master of Computer Science - Microsoft Internet Explorer

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**Time Table for MCS Semester 2, Session 2001/2002**

Last Update : 1 December, 2001

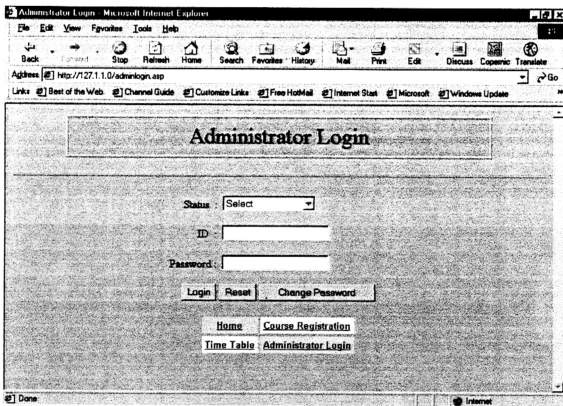
Master of Computer Science		
	6.00-9.00pm	6.30-9.30pm
<b>Monday</b>	WXGA6302 Neural Network (Room A1) Puan Hanisah WRGA6302 VLSI Technology (BK3A) Teh Ying Wai	WXGA6101 Advanced Issues In Programming (Room A2) Dr. Sellappan WRGA6304 High Performance Computer Systems (BK2) Pn Hanayzura Pal @ Afzal
<b>Tuesday</b>	WXGA6303 Digital Signal Processing (Auditorium) Miss Laiha Mat Kiah	
<b>Wednesday</b>		WXGA6301 Expert System (BK1B) Dr Syed Malek Fakar Duani
<b>Thursday</b>	WXGA6102 Requirements Acquisition And Modelling (Auditorium) Dr. Sellappan	WXGA6103 Object-Oriented Techniques (BK3A) Teh Ying Wai
<b>Friday</b>	WXGA6104 Distributed Systems (Room A1) Puan Hanisah	WRGA6301 Parallel And Concurrent Processing (BK3A) Mazura Othman

Done Internet

**Figure 49: Time Table for Master of Computer Science**

### 5.3.4 Administrator Login

For the administrator to login into the system, just click the word “ *Administrator Login* ” at the menu. The following page will appear (Figure 50).



**Figure 50: Administrator Login**

#### **5.3.4.1 Change Password**

- i. Click on the “*Change Password*” button, the steps to change password for administrators are the same as for the students. Please refer to **5.3.2.1** and **Figure 39**. Try using ID and password given below in the “*Change Password*” page. Then create new password.

ID = 111 and Password=111 or

ID = 222 and Password=222 or

ID = 333 and Password=333



### 5.3.4.2 Administrator Login

- i. For accessing into the administrator login page, user has to select their *Status* and fill in the *ID*, and *Password* text box in Figure 51. There are four type of status for administrators: Department Head, Treasury, Lecturer and Staff.

Administrator Login - Microsoft Internet Explorer

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Address <http://127.1.0.0/adminlogin.asp> Go

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## Administrator Login

Status:

ID:

Password:

[Home](#) [Course Registration](#)

[Time Table](#) [Administrator Login](#)

Done Internet

Figure 51: Administrator Login

- ii. Please login using the information given below.

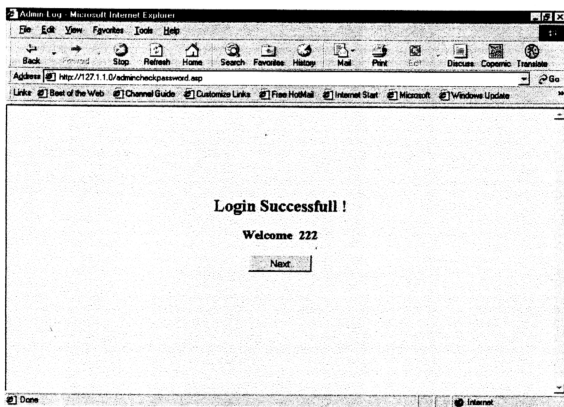
Status: Department Head	ID: 111	Password: 111
Status: Treasury	ID: 555	Password: 555
Status: Lecturer	ID: 222	Password: 222

Status: Staff

ID: 333

Password: 333

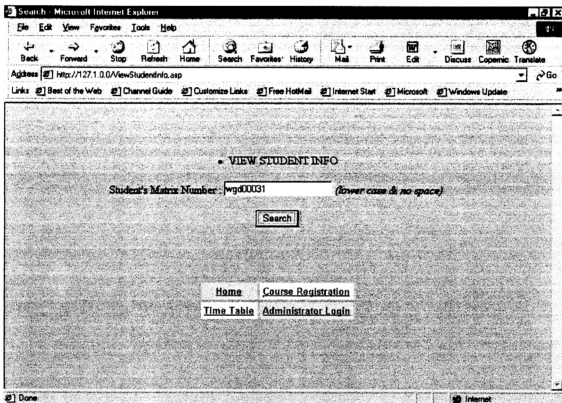
- iii. If user's *Status*, *ID*, and *Password* do not match, access will be denied. If all the information is correct, Figure 52 will appear.



**Figure 52: Successful Login**

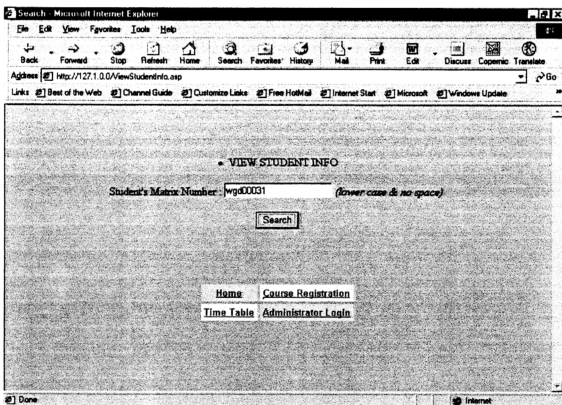
#### **5.3.4.3 View Student's Record**

- i. If user is a lecturer or staff, they will go to the page shown in Figure 53. Here, they can only view the student record but cannot edit it. Key in the student matrix number for the records of the student they which to see. For example, wgd00030.



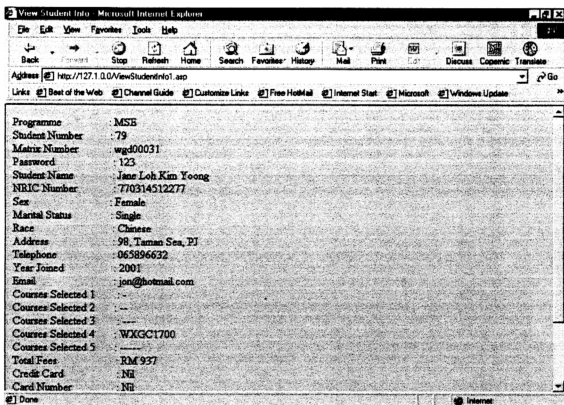
**Figure 53: View Student's Record**

- ii. If the matrix number is in the database record, then the page such as Figure 54 will appear to show user the information of that particular student.



**Figure 53: View Student's Record**

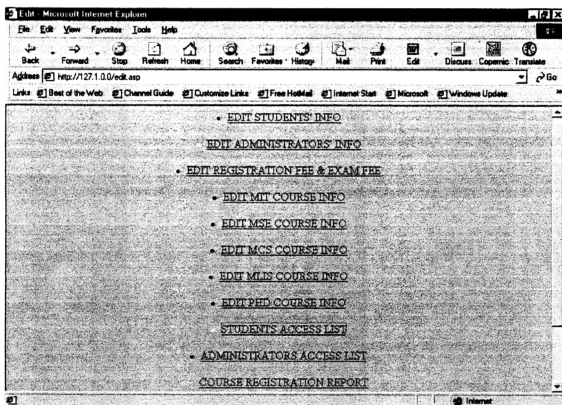
- ii. If the matrix number is in the database record, then the page such as Figure 54 will appear to show user the information of that particular student.



**Figure 54: Student's Record**

#### **5.3.4.4 Edit Menu**

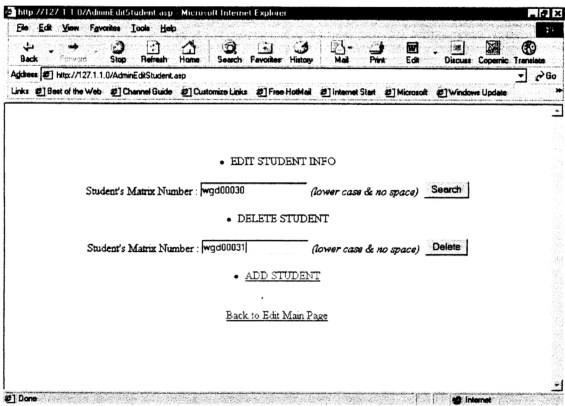
- i. If user is a Department Head or UM Bursar's Officer, they will go to the page as shown by Figure 55. There are 11 choices for them to choose; Edit Students' Info, Edit Administrators' Info, Edit Registration Fee and Exam Fee, Course Registration Report, Edit MIT Course Info, Edit MSE Course Info, Edit MCS Course Info, Edit MLIS Course Info, Edit PHD Course Info, Student Access List and Administrator Access List.



**Figure 55: Edit Menu**

#### **5.3.4.4.1 Edit Students' Information**

- i. If user clicks on " *Edit Student* ", they will go to Figure 56.



**Figure 56: Edit Student's Record**

- ii. If they want to edit or update student record, then enter the student's matrix number in the text box and click on the " Search " button as shown in Figure 56. Then, the page shown by Figure 57 will appear.

**Edit Student Info**

Student Number : 78

Matrix Number : wgd00030

Password : 123

Student Name : Goh Ren Huu

NRIC Number : 761013055149

Sex : ☒ Male ☐ Female

Marital Status : ☐ Single ☒ Married

Race : Malay

Address : 85, taman templer, 70200 Seremban

**Figure 57: Student's Record**

- iii. After editing, click on the "Update" button to update the record.
- iv. If they want to delete student record, then enter student matrix number in the text box and click on the "Delete" button as shown in Figure 56. The particular student's record will be deleted.
- v. However, if they want to add a new student in the record, click on the word "Add Student" as shown in Figure 56. User will come to Figure 58.



**Add New Student**

Matrix No:

Password:

Programme:

Full Name:

NRIC No:

Sex: ☐ Male ☐ Female

Marital Status: ☐ Single ☐ Married

Race:

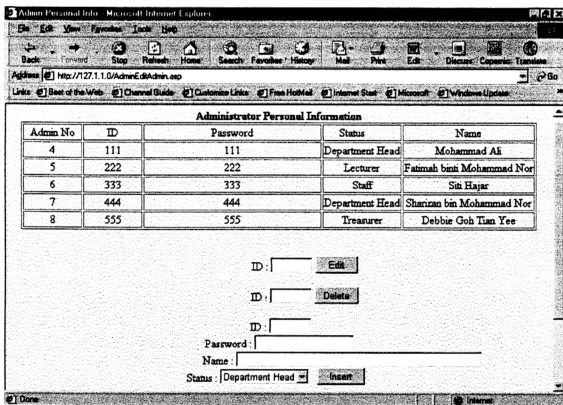
Address:

**Figure 58: Add New Student**

- vi. Click on the “Add” button after user completed all the entries.

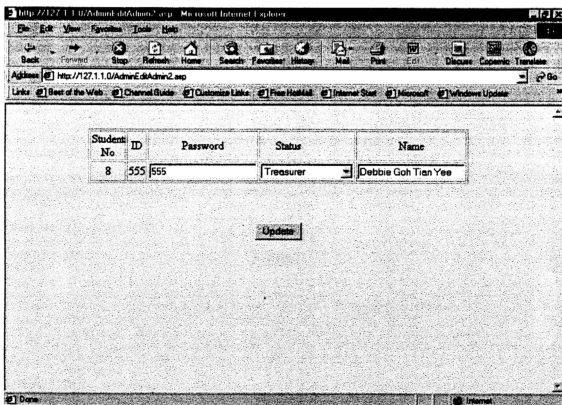
#### **5.3.4.4.2 Edit Administrators’ Information**

- i. Click on the “Edit Admin” at Figure 55, user will come to Figure 59.



**Figure 59: Administrators' Records**

- ii. If they want to edit or update the record, enter the admin ID in the text box and click on the "Edit" button. They will go to Figure 30.

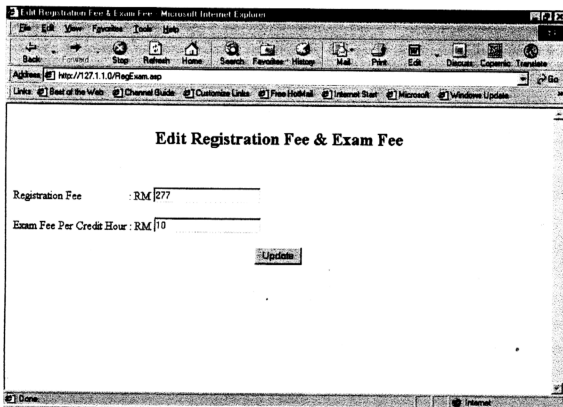


**Figure 60: Edit/Update Record**

- iii. After editing / updating record, click on the "Update" button.
- iv. If they want to delete a record, enter the admin ID and click the "Delete" button as shown in Figure 59.
- v. If they want to add a new administrator, complete the 5 entries as shown in Figure 59 and click the "Insert" button. The record will add in database.

#### 5.3.4.4.3 Edit Registration Fee and Examination Fee

- i. Click on "Edit Registration Fee and Examination Fee" as shown in Figure 55. Then they will go to Figure 61.



**Figure 61: Edit Registration Fee and Examination Fee**

- ii. Change the figure in the text box and then click the “ *Update* ” button.  
The record will be updated.

#### **5.3.4.4.4 Edit MIT Course Info/ Edit MSE Course Info/ Edit MCS Course Info/ Edit MLIS Course Info/ Edit PHD Course Info**

- i. The steps to edit the course info are the same for all *programmes*. Therefore, only the steps for “*Edit MIT Course Info* ” will be discussed.
- ii. Click on “*Edit MIT Course Info* ” as shown in Figure 55. Then, user will see Figure 62 and Figure 63 (Continue from Figure 62).

2 Edit MIT - Microsoft Internet Explorer

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Address http://127.1.1.0/wd8MTCourse.asp Go

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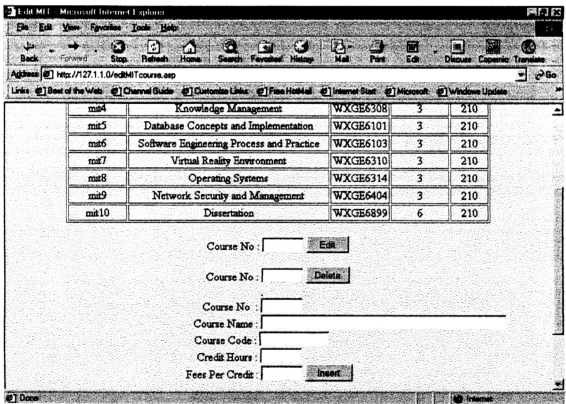
MIT

Course No	Course Name	Course Code	Credit Hours	Fees Per Credit (RM)
mit1	Visual Programming : Concept and Application	WXGE6104	3	210
mit2	Multimedia Technology	WXGE6309	3	210
mit3	Web Commerce	WXGE6306	3	210
mit4	Knowledge Management	WXGE6308	3	210
mit5	Database Concepts and Implementation	WXGE6101	3	210
mit6	Software Engineering Process and Practice	WXGE6103	3	210
mit7	Virtual Reality Environment	WXGE6310	3	210
mit8	Operating Systems	WXGE6314	3	210
mit9	Network Security and Management	WXGE6404	3	210
mit10	Dissertation	WXGE6899	6	210

Course No:  Edit

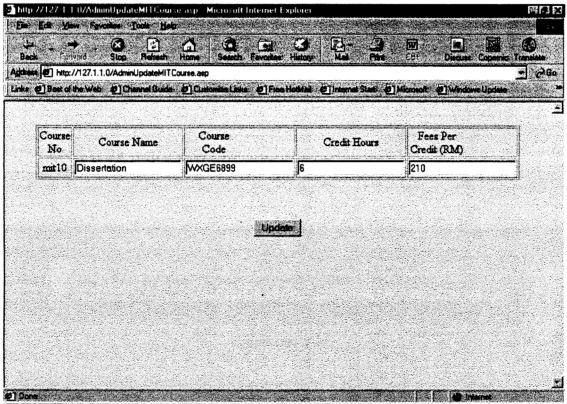
Done Internet

Figure 62: Edit MIT Course



**Figure 63: (Continue from Figure 62)**

- iii. To edit course record, enter the course number in the text box and click the “Edit” button. User will see Figure 64.

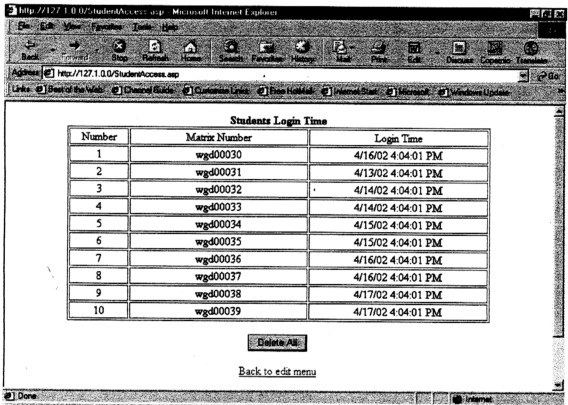


**Figure 64: Edit Course Information**

- iv. Click the "Update" button after editing. The record will be updated.
- v. To delete the course, enter the course number and click the "Delete" button as shown in Figure 63. The course will be deleted.
- vi. To add a new course, complete the 5 text boxes and click the "Insert" button as shown in Figure 63. The new course will insert in the record.

### 5.3.4.4.5 Students Access List

- i. Click on the word “*Student Access List*” as shown in Figure 55. Students Access List allows the administrators to check students’ login time as shown below (Figure 65). The UM Administrators can delete the records at the end of semester.



The screenshot shows a Microsoft Internet Explorer window with the address bar displaying 'http://127.1.0.0/StudentAccess.asp'. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The toolbar contains buttons for Back, Forward, Stop, Refresh, Home, Search, Favorites, History, Mail, Print, Edit, Discuss, Copy, and Translate. The address bar shows the URL 'http://127.1.0.0/StudentAccess.asp'. Below the address bar, there are links for 'Best of the Web', 'Channel Guide', 'Customize Links', 'E-mail Mail', 'Internet Start', 'Microsoft', and 'Windows Update'. The main content area displays a table titled 'Students Login Time'. The table has three columns: 'Number', 'Matrix Number', and 'Login Time'. It contains 10 rows of data. Below the table, there is a 'Delete All' button and a 'Back to edit menu' link.

Number	Matrix Number	Login Time
1	wgd00030	4/16/02 4:04:01 PM
2	wgd00031	4/13/02 4:04:01 PM
3	wgd00032	4/14/02 4:04:01 PM
4	wgd00033	4/14/02 4:04:01 PM
5	wgd00034	4/15/02 4:04:01 PM
6	wgd00035	4/15/02 4:04:01 PM
7	wgd00036	4/16/02 4:04:01 PM
8	wgd00037	4/16/02 4:04:01 PM
9	wgd00038	4/17/02 4:04:01 PM
10	wgd00039	4/17/02 4:04:01 PM

[Delete All](#)

[Back to edit menu](#)

Figure 65: Students Login Time

### 5.3.4.4.6 Administrators Access List

- i. Click on the “*Admin Access List*” as shown in Figure 55. Administrator Access List will allow administrators to check others administrators’ login time as shown in Figure 66.



Admin Login Time - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss Compare Translate

Address http://127.1.0.0/AdminAccess.asp Go

Links Best of the Web Channel Guide Customer Links Free HotMail Internet Star Microsoft Windows Update

Number	Admin ID	Login Time
1	111	4/10/02 9:07:38 AM
2	222	4/11/02 9:07:38 AM
3	555	4/11/02 9:07:38 AM
4	333	4/12/02 9:07:38 AM
5	111	4/12/02 9:07:38 AM
6	555	4/13/02 9:07:38 AM
7	333	4/13/02 9:07:38 AM
8	222	4/14/02 9:07:38 AM
9	333	4/14/02 9:07:38 AM
10	111	4/15/02 9:07:38 AM
11	333	4/16/02 9:07:38 AM
12	555	4/17/02 9:07:38 AM

ID Number :

Done Internet

**Figure 66: Administrators Login Time**

The administrators' login time can be deleted. Enter the ID number and click the "Delete" button, the record of the particular administrator will be deleted.

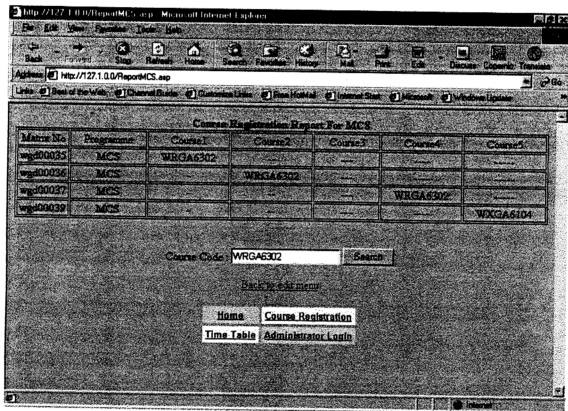
#### 5.3.4.4.7 Course Registration Report

The course registration report main page is shown below (Figure 67).



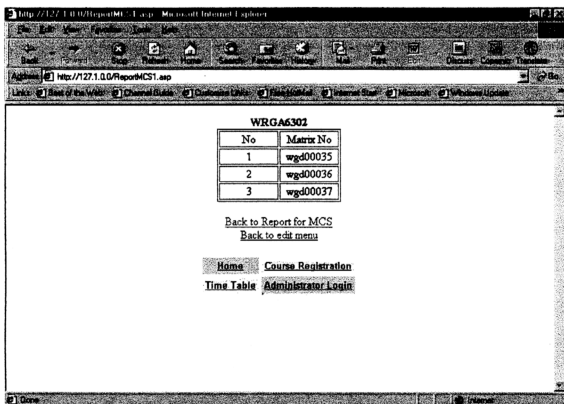
**Figure 67: Course Registration Report for FSKTM**

The page design for the five different programmes is the same. Therefore, only Report for MCS is chosen for discussion. Figure 33 is the page design for the MCS Report.



**Figure 68: Report for MCS**

In Figure 68, there is a table showing all the courses that are registered by the MCS students. User can also check which student and the number of students that registers for the particular course. For example, if they want to check the number of students who registered for course WRGA6302, just type in the course code in the text box and click the "Search" button. Then, Figure 69 will appear.



**Figure 69: Students that Register Course WRGA6302**

All the students who registered for course WRGA6302 will appear in the table.